

Claims:

1. A recording and reproducing device recording and reproducing specific digital content data, which comprising:

5 detecting unit operable to detect the abuse of the digital content data or the control program controlling the recording and reproducing device; and

revoking unit operable to halt the use of the recording and reproducing device based on the abuse detected by the detecting unit.

10 2. A recording and reproducing device according to claim 1, in which the detecting unit comprises:

abuse prevention information calculating unit operable to calculate the abuse prevention information by means of the recorded digital content data and a specific function;

15 abuse prevention information storage unit to store the abuse prevention information calculated by the abuse prevention information calculating unit; and

20 comparing unit operable to compar, if necessary, the abuse prevention information stored in the abuse prevention information storage unit and the abuse prevention information calculated separately by the abuse prevention information calculating unit, and then judging the abuse based on the comparing result.

25 3. A recording and reproducing device according to claim 1, in which the detecting unit comprises:

abuse prevention information calculating unit operable to calculate the abuse prevention information by means of the control

program controlling the recording and reproducing device and a specific function;

abuse prevention information storage unit to store the abuse prevention information calculated by the abuse prevention information calculating unit; and

comparing unit operable to compare, if necessary, the abuse prevention information stored in the abuse prevention information storage unit and the abuse prevention information calculated separately by the abuse prevention information calculating unit, and then judging the abuse based on the comparing result.

4. A recording and reproducing device according to claim 1, wherein at the time of detecting the abuse the detecting unit sends the detecting result to a specific abuse detecting server.

5. A recording and reproducing device according to claim 4 wherein the detecting unit further sends a unique ID specifying the recording and reproducing device to a specific abuse detecting server.

6. A recording and reproducing device according to claim 1, in which the revoking unit halts the use of the recording and reproducing device on the basis of the instruction sent from the detecting unit.

7. A recording and reproducing device according to claim 1, in which the revoking unit halts the use of the recording and reproducing device on the basis of the instruction sent from a specific abuse detecting server.

8. A recording and reproducing device according to claim 1, in which the revoking unit halts the use of the recording and reproducing device on the basis of the instruction stored in digital content data sent from the broadcast station.

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9. A recording and reproducing device according to either one of claims 6 to 8, in which the revoking unit dissolves the halt of the use of the recording and reproducing device on the basis of a specific instruction.

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10. A control method of controlling a recording and reproducing device recording and reproducing specific digital content data, which comprising the steps of:

15 detecting the abuse of the digital content data or the control program controlling the recording and reproducing device; and

halting the use of the recording and reproducing device based on the abuse detected by the step of detecting the abuse.

11. A program executing a computer controlling a recording and reproducing device recording and reproducing specific digital content data, which comprising the steps of:

20 detecting the abuse of the digital content data or the control program controlling the recording and reproducing device; and

25 halting the use of the recording and reproducing device based on the abuse detected by the step of detecting the abuse.

12. A computer readable storage medium storing a program executing a computer controlling a recording and reproducing device

recording and reproducing specific digital content data, which comprising the steps of:

detecting the abuse of the digital content data or the control program controlling the recording and reproducing device; and

5 halting the use of the recording and reproducing device based on the abuse detected by the step of detecting the abuse.

13. An abuse detecting device provided to a recording and reproducing device recording and reproducing specific digital content data, which comprising:

abuse prevention information calculating unit operable to calculate the abuse prevention information by means of the recorded digital content data and a specific function;

15 abuse prevention information storage unit to store the abuse prevention information calculated by the abuse prevention information calculating unit; and

comparing unit operable to compare, if necessary, the abuse prevention information stored in the abuse prevention information storage unit and the abuse prevention information calculated separately by the abuse prevention information calculating mean, and then judging the abuse based on the comparing result.

14. An abuse detecting device provided to a recording and reproducing device recording and reproducing specific digital content data, which comprising:

abuse prevention information calculating unit operable to calculate the abuse prevention information by means of the control

program controlling the recording and reproducing device and a specific function;

abuse prevention information storage unit to store the abuse prevention information calculated by the abuse prevention information calculating unit; and

comparing unit operable to compare, if necessary, the abuse prevention information stored in the abuse prevention information storage unit and the abuse prevention information calculated separately by the abuse prevention information calculating unit, and then judging the abuse based on the comparing result.

15. An abuse detecting device according to claim 13 or 14, wherein the detecting result is sent to a specific abuse detecting server when the abuse is detected.

16. A revoking device provided to a recording and reproducing device recording and reproducing specific digital content data, wherein the use of the recording and reproducing device halts on the basis of the instruction sent from a specific abuse detecting server.

17. A revoking device provided to a recording and reproducing device recording and reproducing specific digital content data, wherein the use of the recording and reproducing device halts on the basis of the instruction stored in the digital content data sent from the broadcast station.

18. A revoking device provided to a recording and reproducing device recording and reproducing specific digital content data, wherein

the halt of the use of the recording and reproducing device is dissolved on the basis of a specific instruction.

19. An abuse prevention system preventing the abuse of digital content data of a recording and reproducing device recording and reproducing specific digital content data,

in which the recording and reproducing device comprises:

detecting unit operable to detect the abuse of the digital content data or the control program controlling the recording and reproducing device;

sending unit operable to send in specific time intervals to a specific abuse detecting server the detecting result of the abuse detected by the detecting unit; and

revoking unit operable to determine whether the recording and reproducing device is usable or not on the basis of the instruction sent from the abuse detecting unit, and

in which the abuse detecting server determines whether the recording and reproducing device is usable or not in response to the detecting result of the abuse sent from the recording and reproducing device.

20. A abuse prevention system according to claim 19, wherein the recording and reproducing device can be operated for a specific period on the basis of a control instruction sent from the abuse detecting server, said instruction permitting the recording and reproducing device to be operated.